MWR

MORBIDITY AND MORTALITY WEEKLY REPORT

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Current Trends

Update: Acquired Immunodeficiency Syndrome (AIDS) among Patients with Hemophilia — United States

In 1982, six hemophilia A patients who had developed *Pneumocystis carinii* pneumonia (PCP) and other opportunistic infections and who met the CDC case definition of AIDS were reported by CDC (1,2). As of November 30, 1983, physicians and health departments in the United States have reported a total of 21 AIDS cases among hemophilia patients—19 among patients with hemophilia A and two among patients with hemophilia B. In addition, seven cases from outside the United States meeting the CDC definition of AIDS in association with hemophilia A have been brought to CDC's attention. Of the hemophilia cases in the United States, one was diagnosed in 1981; eight, in 1982; and 12, to date in 1983 (Figure 1). Two patients are known to have had other risk factors for acquiring AIDS.

To date, no cases of Kaposi's sarcoma have been reported in association with hemophilia; each patient had an opportunistic infection suggestive of an underlying cellular immunodeficiency. PCP was the most common opportunistic infection in hemophilia patients with AIDS and has occurred in 20 (95%) of the U.S. patients. Many of these patients have had other opportunistic infections, principally candidiasis, cryptococcosis, toxoplasmosis, and histoplasmosis, or infections with cytomegalovirus and *Mycobacterium avium-intracellulare*. The geographic distribution has included 15 states, with four cases each in the Mid-Atlantic, South Atlantic, and East North Central regions, three in the East South Central region, two each in the New England and West North Central regions, and one each in the Pacific and Mountain regions. No state was the residence for more than two patients.

The National Hemophilia Foundation (NHF) and CDC have conducted a mail survey of 116 hemophilia treatment centers (HTCs) designated by the NHF in the 48 contiguous states, which estimated the prevalence of AIDS-associated diseases from 1978 to 1982 among approximately 6,700 hemophilia patients; a separate review of U.S. deaths reported to the National Center for Health Statistics as being hemophilia-related was also included in the survey. This survey failed to identify any diagnoses suggestive of AIDS occurring among hemophilia patients before the first case diagnosed in September 1981 or any cases other than those reported here. In addition to the 21 reported U.S. hemophilia patients with AIDS, some patients with hemophilia have been reported with unexplained, possibly AIDS-associated phenomena that do not fit the CDC criteria for an AIDS diagnosis, including lymphadenopathy syndrome (3), thrombocytopenic purpura (4), and Burkitt's lymphoma (5).

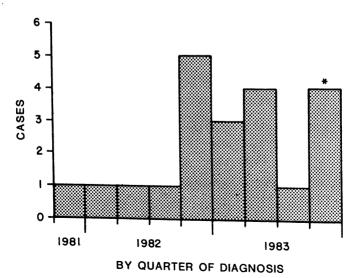
AIDS - Continued

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Editorial Note: Although the etiology of AIDS remains unknown, epidemiologic evidence suggests an infectious cause (6, 7). The possibility of blood or blood products as vehicles for transmission of AIDS to hemophilia patients is supported by the increased risk of AIDS in intravenous drug abusers (8) and reports of transfusion-associated AIDS cases (9,10). Patients with hemophilia receive transfusions of anti-hemophilic factor and plasma factor concentrates prepared from pools of sera from 2,000 to 20,000 donors. Cryoprecipitate and plasma factor preparations are associated with the transmission of several known viral agents, including cytomegalovirus, hepatitis B virus, and the virus(es) of non-A, non-B hepatitis (11). However, at least nine U.S. hemophilia-associated AIDS patients also received other blood products in the 5 years preceding their AIDS diagnoses.

The NHF's Medical and Scientific Advisory Council has issued specific recommendations for managing hemophilia patients receiving blood and blood products (12). In addition, the U.S. Public Health Service has requested that persons at high risk of acquiring AIDS refrain from donating plasma and/or blood and that an extensive effort be undertaken to develop and

FIGURE 1. Acquired immunodeficiency syndrome (AIDS) among patients with hemophilia, by quarter of diagnosis — United States, October 1981-November 1983



^{*}As of November 30, 1983.

AIDS - Continued

evaluate the use of laboratory tests for screening blood or blood products obtained from individuals in high-risk groups (13,14). Physicians diagnosing opportunistic infections or unusual neoplasms in hemophilia patients who have not received antecedent immunosuppressive therapy are encouraged to report these findings to local or state health departments and to CDC.

References

- 1. CDC. Pneumocystis carinii pneumonia among patients with hemophilia A. MMWR 1982;31:365-7.
- CDC. Update on acquired immune deficiency syndrome (AIDS) among patients with hemophilia A. MMWR 1982;31:644-6, 652.
- Gill JC, Menitove JE, Wheeler D, Aster RH, Montgomery RR. Generalized lymphadenopathy and T cell abnormalities in hemophilia A. J Pediatr 1983;103:18-22.
- Ratnoff OD, Menitove JE, Aster RH, Lederman MM. Coincident classic hemophilia and "idiopathic" thrombocytopenic purpura in patients under treatment with concentrates of antihemophilic factor (factor VIII). N Engl J Med 1983;308:439-42.
- Gordon EM, Berkowitz RJ, Strandjord SE, Kurczynski EM, Goldberg JS, Coccia PF. Burkitt lymphoma in a patient with classic hemophilia receiving factor VIII concentrates. J Pediatr 1983;103:75-7.
- Special report. Epidemiologic aspects of the current outbreak of Kaposi's sarcoma and opportunistic infections. N Engl J Med 1982;306;248-52.
- Jaffe HW, Choi K, Thomas PA, et al. National case-control study of Kaposi's sarcoma and *Pneu-mocystis carinii* pneumonia in homosexual men: part 1, epidemiologic results. Ann Intern Med 1983:99:145-51.
- 8. Masur H, Michelis MA, Wormser GP, et al. Opportunistic infection in previously healthy women: initial manifestations of a community-acquired cellular immunodeficiency. Ann Intern Med 1982:97:533-9.
- Ammann AJ, Wara DW, Dritz S, et al. Acquired immunodeficiency in an infant: possible transmission by means of blood products. Lancet 1983;1:956-8.
- 10. Andreani T, le Charpentier Y, Brouet J-C, et al. Acquired immunodeficiency with intestinal cryptosporidiosis: possible transmission by Haitian whole blood. Lancet 1983;1:1187-91.
- Enck RE, Betts RF, Brown MR, Miller G. Viral serology (hepatitis B virus, cytomegalovirus, Epstein-Barr virus) and abnormal liver function tests in transfused patients with hereditary hemorrhagic diseases. Transfusion 1979;19:32-8.
- Medical and Scientific Advisory Council. Recommendations to prevent AIDS in patients with hemophilia (revised). New York: National Hemophilia Foundation, October 22, 1983.
- CDC. Acquired immune deficiency syndrome (AIDS): precautions for clinical and laboratory staffs. MMWR 1982:31:577-80.
- CDC. Acquired immunodeficiency syndrome (AIDS): precautions for health-care workers and allied professionals. MMWR 1983;32:450-1.

Problems with the Performance of Passive Monitors for Formaldehyde

The existing standard for occupational exposures to formaldehyde, promulgated by the Occupational Safety and Health Administration, established a "permissible exposure limit" for formaldehyde of 3 parts per million as an 8-hour time-weighted average concentration (TWA) (1). Subsequently, when formaldehyde was recognized as a potential occupational carcinogen, the National Institute for Occupational Safety and Health (NIOSH) recommended that exposures be reduced to the lowest feasible levels (2). New technologies have emerged for detecting formaldehyde in the environment; a principal innovation is the "passive monitor."

Passive monitors, produced as badges to be worn on clothing or affixed to a wall, are devices that sample the environment for hazardous substances, such as formaldehyde. They

Passive Monitors - Continued

are "passive" in that they rely on unassisted molecular diffusion of the environmental agent in the air onto a sorbent material; the sorbent is then subjected to chemical analysis to determine the amount of formaldehyde adsorbed. This differs from the established practice of sampling, which utilizes a mechanical air pump to direct air, at a known flow rate, over a sorbent material, or through a liquid contained in an impinger; the material in the impinger is then quantitatively analyzed for formaldehyde. From these results, an estimate is made of the concentration of the agent in the tested air.

To study the efficacy of passive monitors, NIOSH developed draft specifications for performance, protocols for testing, and criteria for evaluation (3). They tested passive formal-dehyde monitors* now being widely marketed in the United States. These tests compared the performance of the passive monitors with results from independent testing using established traditional methods (NIOSH Physical and Chemical Analysis Methods 125 [4], and 354 [5]), and chromatographic analysis of 2, 4, dinitrophenyl hydrazine-coated silica gel tubes (6) (Table 1).

TABLE I. Summary-cases specified notifiable diseases, United States

	4	7th Week Endin	9	Cumulative, 47th Week Ending				
Disease	November 26, 1983	November 27, 1982	Median 1978-1982	November 26, 1983	November 27, 1982	Median 1978-1982		
Aseptic meningitis	197	174	157	10.913	8.724	7,676		
Encephalitis: Primary (arthropod-borne	137	174	157	10,513	0,72			
& unspec.)	22	34	25	1,572	1,439	1,099		
Post-infectious	1 - 5	34	6	67	72	201		
Gonorrhea: Civilian	14.849	15.743	15.935	811,135	864,896	906,153		
Military	386	253	382	21.860	23,735	24,490		
Hepatitis: Type A	339	395	479	19,714	20,669	25,594		
Type B	425	461	403	20.577	19,686	16,432		
Non A, Non B	1 66	61	Ň	3,033	2.207	N		
Unspecified	132	158	173	7,052	7,818	9,391		
Legionellosis	10	22	Ň	646	557	N		
Leprosy	l ž	- 3	2	215	187	187		
Malaria	5	10	12	716	961	961		
Measles: Total*	22	27	43	1.398	1,572	12,889		
Indigenous	1 2	Ň	Ň	1,107	N	N		
Imported	20	Ň	Ñ	291	Ň	N		
Meningococcal infections: Total	46	51	51	2.494	2.745	2,436		
Civilian	46	51	51	2,479	2,731	2,418		
Military	1 70	J.	J.	15	14	18		
Mumps	55	58	103	3.000	4.832	7,903		
Pertussis	29	12	21	2.051	1,569	1,538		
Rubella (German measles)	1 11	10	37	916	2.177	3,548		
Syphilis (Primary & Secondary): Civilian	520	587	528	29.177	29,794	24,651		
Military	326	9	9	353	400	287		
Toxic-shock syndrome	l ğ	Ň	Ň	350	Ň	N		
Tuberculosis	428	409	421	21,058	22.911	24,568		
Tularemia	1 720	-JOJ	7-1	286	236	205		
Typhoid fever	5	12	6	405	362	474		
Typhus fever, tick-borne (RMSF)	1 2	3	4	1,136	944	1,023		
Rabies, animal	77	91	75	5.404	5,709	5,709		

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1983		Cum. 1983
Anthrax	-	Plague	36
Botulism: Foodborne	18	Poliomyelitis: Total	6
Infant (N.Y. City 1)	58	Paralytic (Mo. 1)	6
Other	3	Psittacosis (lowa 1, Oreg. 1)	107
Brucellosis (La. 1)	164	Rabies, human	2
Cholera	1 1	Tetanus (Upstate N.Y. 1)	67
Congenital rubella syndrome	20	Trichinosis	31
	4	Typhus fever, flea-borne (endemic, murine)	43
Leptospirosis	42		i
Cholera	1 1	Tetanus (Upstate N.Y. 1)	

^{*}Nineteen of the 22 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

^{*3}M—Formaldehyde Monitors, Models 3750 and 3751. Use of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

(Continued on page 621)

TABLE III. Cases of specified notifiable diseases, United States, weeks ending November 26, 1983 and November 27, 1982 (47th week)

	Aseptic Encephalitis Hepatitis (Viral), by type											
	Aseptic Menin-		halitis Post-in-		orrhea				Legionel-	Leprosy	Malaria	
Reporting Area	gitis	Primary	fectious	(Civ	ilian)	Α	В	NA,NB	Unspeci- fied	losis		
	1983	Cum. 1983	Cum. 1983	Cum. 1983	Cum. 1982	1983	1983	1983	1983	1983	Cum. 1983	Cum. 1983
UNITED STATES	197	1,572	67	811,135	864,896	339	425	66	132	10	215	716
NEW ENGLAND	4	60	-	21,358	20,905	8	24	4	18	-	3	37
Maine N.H.	1 -	5	-	1,026 652	1,078 697	1 -	2	-	-	-	2	1 2
Vt. Mass.	-	1	-	399	387	-	3	2		-	-	1 17
R.I.	1	30 1	-	9,133 1,166	9,358 1,398	-	4	-	16	:	-	4
Conn.	2	23	-	8,982	7,987	7	15	2	2	-	1	12
MID ATLANTIC Upstate N.Y.	35	118	6	103,802	109,209	49	96	11	13 3	-	26	98 29
N.Y. City	26 1	32 11	-	16,828 41,555	18,103 44,910	2 7	22 7	2	2	-	25	26
N.J. Pa	5	17	1	19,240	19,844	6	29	1	7	-	1	25 18
	3	58	5	26,179	26,352	34	38	8	1	-		
E.N. CENTRAL Ohio	64 25	552 187	20 9	115,216	124,457 32,935	34 15	47 18	2	13 3	6 5	6 1	52 9
Ind.	4	180	1	31,048 11,394	15,181	7	4	1	2		_	7
III. Mich.	35	17 111	7	30,856	35,687 29,721	1 11	4 20	1	8	1	2 3	16 15
Wis.	-	57	3	31,418 10,500	10,933	-	1	-	-	-	-	5
W.N. CENTRAL	2	155	10	37,652	40,629	17	9	1	-	1	6	28
Minn Iowa	2	58	1	5,317	5,862	2 2	2 2	1	-	-	4	8 4
Mo.		57 29	-	4,233 18,066	4,339 19,311	2	1	-	-	1	1	5
N. Dak. S. Dak.	-	4	-	406	529	-	-	-	-	-	:	2 1
Nebr.	-	1 4	2	952 2,500	1,043 2,395	-	-	-	-	-	-	2
Kans	-	2	7	6,178	7,150	11	4	-	-	-	1	6
S. ATLANTIC Del.	30	220	15	211,408	226,867	17	77	5	7	2	13	119 1
Md	2 7	1 23	-	3,891 27,352	3,752 28,611	4	20	2	1	-	1	23
D.C. Va	-	-	-	14,388	13,769	-	1	:	- :	1	1	16 29
W. Va.	3 1	54 45	2	19,413 2,336	18,231 2,530	1 1	1 2	1 -	1		-	3
N.C. S.C	7	46	-	32,599	35,884	-	2	-	-	-	2	3 6
Ga.	1 2	5 8	1	19,453 43,999	21,915 44,775	2 3	11 16	1	-		ī	10
Fla.	7	38	12	47,977	57,400	6	24	1	5	1	8	28
E.S. CENTRAL	18	66	2	67,902	74,477	7	20	3	-	-	-	14
Ky Tenn.	10	16	-	8,052	10,074	3 3	2 14	3	:	-	-	2
Ala.	2 4	18 24	-	27,880 20,901	29,631 21,466	-	3	-	-	-	-	7
Miss.	2	8	2	11,069	13,306	1	1	-	-	-	-	5
W.S. CENTRAL Ark.	11	155	2	114,446	118,803	59	21	4	48 4	-	33	62 1
La.	1 2	10 19	-	9,079 22,463	9,731 21,374	1	2	1	-	-	1	8
Okla Tex	4	30	1	13,052	13,044	. 8	.2	3	1	-	32	10 43
	4	96	1	69,852	74,654	50	17	-	43	-		
MOUNTAIN Mont.	2	75	4	25,918	29,165	17	12	2	6	-	12	26
Idaho	-	2 1	-	1,101 1,158	1,225 1,388	1	1	-	-		-	2
Wyo. Colo.	1	2	-	681	868	-	-	:	1	-	2	1 10
N. Mex.	-	45 2	-	7,287 3,187	7,796 3,996	2 6	3 1	1 -		-	-	5
Ariz. Utah	1	11	4	7,369	7,606	6	5	1	5	-	9	5
Nev.	Ū	12	-	1,252 3,883	1,437 4,849	2 U	2 U	Ū	Ū	Ū	1 -	3
PACIFIC	31	171	8	113,433	120,384	131	119	34	27	1	116	280
Wash. Oreg.	2	13	1	8,582	10,417	5	13 9	3 2	-	-	16 1	14 11
Calif.	29	149	4 3	6,088 93,670	7,207 97,310	28 98	9 96	2 29	27	1	65	253
Alaska Hawaii	-	-	•	2,958	3,120	-	-	-	-	-	-	-
Guam	-	9	-	2,135	2,330	-	1	-			34	2
P.R.	U 1	1	1	103 2,365	127 2,419	U 3	U 4	U	U 21	U	-	2 2
V.I. Pac. Trust Terr.	Ü	-	-	262	255	1	2		-	.:	-	-
. co. must rerr.	U	-	-	-	388	U	U	U	U	U	-	-

TABLE III. (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending November 26, 1983 and November 27, 1982 (47th week)

		Meas	les (Rub	eola)		Menin-							Rubella			
Reporting Area	Indi	genous	Impo	orted*	Total	gococcal Infections		Mumps			Pertussis	·	Rubell			
	1983	Cum. 1983	1983	Cum. 1983	Cum. 1982	Cum. 1983	1983	Cum. 1983	Cum. 1982	1983	Cum. 1983	Cum. 1982	1983	Cum. 1983	Cum. 1982	
UNITED STATE	S 2	1,107	20	291	1,572	2,494	55	3,000	4,832	29	2,051	1,569	11	916	2,177	
NEW ENGLAND	- (5	-	15	14	133	2	137	181	2	70	52	-	17	19	
Maine N.H.	-	-	-	3	3	10 6	2	22 26	43 18	-	5 10	4	-	4	11	
Vt.	-	-	-	-	2	10	-	15	7		8	2	-	5		
Mass. R.I.	•	4	-	4	3	43	-	40	73	-	35	26	-	6	1	
Conn.	-	1	:	8	6	9 55	-	16 18	17 23	2	5 7	11 5	-	2	5	
MID ATLANTIC	1	75	-	44	165	418	10	262	315		352	426	1	146	104	
Upstate N.Y. N.Y. City	1	5 44	-	13	112	133	3	100	87	-	117	248	1	31	50 35	
N.J.	:	26	-	27 1	43 6	74 73	4	39 49	47 52	-	53 19	39 23	-	86 3	18	
Pa.	-		-	3	4	138	-	74	129	-	163	116	-	26	1	
E.N. CENTRAL	-	649	-	58	77	456	16	1,324	2.466	6	424	331	1	124	199	
Ohio Ind.	-	72 402	-	15	1	135	7	562	1,636	ž	147	91	-	2	2 29	
AI.	-	173	-	4 33	2 24	54 133	1	46	43	2	55	22 154	1	25 54	75	
Mich.	-	.,2	-	5	50	133 81	8	152 484	294 371	1	119 40	26	-	17	49	
Wis.	-	-	-	1	•	53	-	80	122	-	63	38	-	26	44	
W.N. CENTRAL Minn.	-	1	-	7	49	147	_	160	615	-	122	81	-	42	60	
lowa	-	1	-	-	-	27	-	28	453	-	47	34	-	9	6	
Mo.	-	-	-	. 1	2	17 68	-	41 21	51 13	-	6 15	9 16	-	-	38	
N. Dak.	-	-	-	•	-	4	-	- 1	-	-	2	-	-	-	:	
S. Dak. Nebr.	-	-	-	-	-	4	-	-	1	-	8	6	-	-	1	
Kans.	-		-	6	3 44	5 22	-	4 65	1 96	-	2 42	1 15	-	33	15	
S. ATLANTIC	-	173	-	31	174	510	5	219	287	7	235	261	1	98	93	
Del. Md.	-	-	-	:	:	11	-	8	12	-	5	_6	-	3	1 34	
D.C.	-	6	-	4	4	53 5	1	44	30	2	19	71	-	3	-	
Va. W. Va.	-	10	-	13	14	76	-	35	39	-	50	28	-	3	12	
N.C.	-	•	-	:	3	2	1	54	99	-	9	10	-	10	2	
S.C.	-	-	-	1	1	101 50	-	13	20	-	28 14	45 16	-	10	1	
Ga.	-	8	-	-		81	3	14 51	17 24	3	64	40	-	13	17	
Fla.	-	149	-	9	151	131	Ň	-	46	2	46	44	1	68	23	
E.S. CENTRAL	-	1	19	24	9	145	2	58	63	-	34	50	-	19	47 29	
Ky. Tenn.	-	-	-	1	1	29	-	21	20	-	14	6	-	18	2 2	
Ala.	:	1		4	6 2	50 44	2	31 2	25 9	-	9 5	26 5		1		
Miss.	-	-	19†	19	-	22	-	4	9	-	6	13	-	•	16	
W.S. CENTRAL	-	40	-	35	166	260	4	254	227	8	453	101	-	128	121	
Ark. La.	-	5	-	8	-	22	ī	3	7	2	25	6	-	13	1	
Okla.	-	1	-	25	10	49	1	46	6	-	12	21 6	-	13	3	
Tex.	-	33	-	2	30 126	33 156	N 2	205	214	6	325 91	68	-	115	115	
MOUNTAIN	-	-	_	18	29	112	4	172	110	1	221	67	1	38	85 5	
Mont.	-	-	-	4		26	-	7	6	i	2	1	-	6 8	7	
ldaho Wyo.	-	-	•	10	-	8	-	8	4	-	15 6	12 3	1	7	7	
Colo.	-	-	-	3	1 8	2 36	1	3 51	2 19	-	133	19	-	1	6	
N. Mex.	-	-	-	-	-	7	Ņ	-	-	-	14	7	-	8	16	
Ariz. Utah	•	-	-	1	17	20	3	90	51	-	29	21 4	-	7	26	
Nev.	Ū	-	Ū	-	3	12 1	Ū	8 5	20 8	Ū	22	-	Ū	1	12	
PACIFIC	1	163	1	59	889	313	12	414	568	5	140	200	7	304	1,449 40	
Wash.	-	1	-	27	42	45	4	49	79	3	19	33	-	12 14	•	
Oreg. Calif.	i	152	1 §	2	17	53	N	-	-	-	9	27 112	7	276	1,390	
Alaska		153	18	28 2	824	205 3	8	329 16	457 12	2	105 4	-	-	1	5	
Hawaii	-	1	-	-	5	7	-	20	20	-	3	28	-	1		
Guam P.R.	U	1 94	U	1	6	.1	ų	1 1 2 2	5	U	13	21	U	7	1	
V.I.	-	-	-	5	177	11	7	133	91 4	-	-		-	2	2	
Pac. Trust Terr.	U	-	Ū	-	1	-	ū	-	6	Ū		-	U	-		

^{*}For measles only, imported cases includes both out-of-state and international importations.

TABLE III. (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending November 26, 1983 and November 27, 1982 (47th week)

Cum	Reporting Area	Syphilis (Primary &	(Civilian) Secondary)	Toxic- shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal
NEW ENGLAND 19	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1983	Cum. 1983		Cum. 1983		Cum. 1983
Meine 19 7 - 1 333 1 9 1	UNITED STATES	29,177	29,794	9	428	21,058	286	405	1,136	5,404
NH				-			4	17	6	37
VI. 3 4 - 1 12 - 12 - 1		19		-				-		9
Mass. 400 369 - 6 342 3 13 2 14 18 18 1 21 22 - 1 53 1 1 - 1 - 1 18 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19				-	3			-	1	2
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TABLE IV. Deaths in 121 U.S. cities,* week ending November 26, 1983 (47th week)

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www.comarkana. wo 30 h 2 l l 3 l	Wichita, Kans.	40	30	6	2	1	1	3	l							

more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. * Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or

Pneumonia and influenza
 Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
 Total includes unknown ages.

Passive Monitors — Continued

Testing of passive monitors, as marketed, consistently produced estimates of formal-dehyde concentrations that were lower than those determined by the established sampling methods. Equilibration of the badges in an atmosphere of high humidity (92%) before exposure to the test atmosphere provided results comparable to results from traditional methods. This suggests that the discrepant performance of the passive monitors may be explained by a loss of moisture from the sorbent and/or operation in atmospheres with low humidity (based on laboratory tests, up to 40%).

Based on these findings, NIOSH concluded that the use of such badges, as marketed, cannot be relied on to produce consistently accurate measures of formaldehyde in the environment. NIOSH has notified the manufacturer of these findings.

Reported by Methods Research Br, Div of Physical Sciences and Engineering, NIOSH, CDC.

Editorial Note: Similar findings have been reported by other investigators (7), and NIOSH and CDC's Center for Environmental Health have received a number of telephone calls from state and local health agencies and from private individuals concerning the household use of these devices. Passive monitors for formaldehyde have been used to test for formaldehyde in the air of some 10,000 U.S. homes (8). Based on the findings reported above, the results of such tests should be interpreted with caution.

References

- Occupational Safety and Health Administration. Occupational and Safety Health Standards, General Industry. U.S. Department of Labor. 29 CFR 1910.1000.
- NIOSH current intelligence bulletin 34. Formaldehyde: evidence of carcinogenicity. U.S. Department of Health and Human Services publication (NIOSH) 81-111 (1981).
- Hull RD, Cassinelli ME. Tentative laboratory performance specifications, evaluation criteria and testing protocol for passive sampling. Draft NIOSH Technical Report (1982).
- National Institute for Occupational Safety and Health. NIOSH manual of analytical methods, Vol. I (2nd Ed.). U.S. Department of Health, Education, and Welfare publication (NIOSH) 77-157A, P&CAM 125 (1977).
- National Institute for Occupational Safety and Health. NIOSH manual of analytical methods, Vol. VII
 (2nd Ed.). U.S. Department of Health and Human Services publication (NIOSH) 82-100, P&CAM 354
 (1981).
- Beasley RK, Hoffmann CE, Rueppel ML, Worley JW. Sampling of formaldehyde in air with coated solid sorbent and determination by high performance liquid chromatography. Anal Chem 1980;52:1110-4.
- Gammage RB, Hingerty BE, Womack DR, Hawthorne AR. Field intercomparison of formaldehyde monitors suitable for residential indoor measurements. Paper no. 19 presented at the 1983 American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 22-27, 1983.
- Anders LW, Shor RM. Formaldehyde concentrations measured in U.S. residences by diffusional samplers and impingers. Paper no. 20 presented at the 1983 American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 22-27, 1983.

TABLE 1. Average results of tests for formaldehyde in air: comparison of passive monitors with other methods

Test system	Number of tests	Concentration \pm 95% confidence interval (parts per million)
P&CAM 125	4	1.95 ± 0.35
P&CAM 354	4	1.73 ± 0.28
2,4-DNP	4	1.93 ± 0.35
Passive monitors (as marketed)	6	0.59 ± 0.06
Passive monitors (pre-equilibrated)*	12	1.80 ± 0.04

^{*}In high humidity

Biologic Safety

The World Health Organization (WHO) laboratory biosafety manual, produced by the Special Program on Safety Measures in Microbiology (SMM), is now available.* It provides internationally applicable guidance on biosafety developed by several expert working groups.

Recognizing that laboratory accidents and infections are caused primarily by poor practice and technique, the manual emphasizes safe practice and training procedures. It also presents basic standards of laboratory design for work with microorganisms by degree of infective risk and a guide to selecting and using essential biosafety equipment and materials. Although oriented to biosafety, the manual also provides an overall, general laboratory safety checklist and safety procedures for using and handling laboratory chemicals.

Other sections of the manual deal with the organization and management of safety programs, safe shipment of specimens and infectious substances, and contingency plans and emergency procedures. An extensive bibliography and a list of audiovisual training aids are included.

The manual is intended primarily for the guidance and use of laboratory supervisors, biosafety officers, and others responsible for laboratory safety programs.

Training Workshops

Orientation and training in laboratory biosafety have been a major effort of the SMM Program. To develop a global network of biosafety expertise, a series of "train-the-trainer" workshops has been conducted, and biosafety collaborating centers are being established. The WHO Regional Office for the Americas conducted the first course in June 1981 at the Public Health Institute, Sao Paulo, Brazil, the second in May 1982 at the Caribbean Epidemiology Centre (CAREC) in Trinidad and Tobago, and the third in November 1983 at the Pan American Zoonoses Centre in Argentina. A country-level course was held in July 1982 at the National Institute of Virology in Pune, India, under the auspices of the Regional Office for Southeast Asia and the Indian Council of Medical Research.

In June 1983, a global workshop was held at the WHO Biosafety Collaborating Centre, National Institutes of Health, Bethesda, Maryland. Twenty-one senior laboratory scientists representing 16 countries and the six WHO Regions attended. The participants, selected by the Regional Offices, will conduct regional and country-level biosafety courses, participate in other laboratory-oriented training courses, and be available to provide assistance to individual countries and laboratories on request.

Expert assistance and advice on special biosafety matters may be obtained from any of the following institutions:

- 1. The Division of Safety (WHO Collaborating Centre), National Institutes of Health, Bethesda, Maryland.
- The Environmental Microbiology and Safety Reference Laboratory (WHO Collaborating Centre), Public Health Laboratory Service Centre for Applied Microbiology and Research, Porton Down, England.
- The Bureau of Infection Control (WHO Collaborating Centre), Laboratory Centre for Disease Control, Ottawa, Canada.
- 4. National Institute of Virology, Pune, India.
- 5. Office of Biosafety, Centers for Disease Control, Atlanta, Georgia.

^{*}Laboratory Biosafety Manual. Geneva: World Health Organization, 1983. 123 pages. Price: Sw. fr 14. Arabic, French, and Spanish editions in preparation.

Biologic Safety — Continued

Within the year, five additional institutions will be designated as WHO Biosafety Collaborating Centres.

Advanced professional training in biosafety is available at the School of Public Health, University of North Carolina, Chapel Hill, North Carolina 27514. Both master's and doctor of public health degrees in biohazard science are offered in the program established in 1979. Information may be obtained by writing to the Director. Additional information or assistance on biosafety may be obtained by contacting the Regional Offices or the Special Program on Safety Measures in Microbiology, WHO Headquarters, Geneva.

Reported by WHO Weekly Epidemiological Record 1983;58:289-90.

Editorial Note: Implementation of recommendations in the WHO manual should be useful in standardizing biosafety practices internationally. However, individual countries are expected to exercise judgment in determining the applicability of these recommendations within their countries, and some variations in acceptable biosafety practices are, therefore, expected from country to country. A collaborative effort that included input from biomedical scientists has been organized by CDC and NIH to develop a manual, *Biological Safety in Microbiological and Biomedical Laboratories*, which is expected to provide guidance specifically applicable to microbiological and biomedical laboratories in the United States. The manual will be available in early 1984.

Errata: Vol. 32, No. 35

p. 464. In the article, "Arizona hinshawii Septicemia Associated with Rattlesnake Powder—California," the following names should be included in the credits on p. 465: L Frank, C Quint, Communicable Disease Bureau, Alameda County Health Care Svcs, Oakland, California.

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p. 518. In the article, "Neonatal Gonococcal Ophthalmia—California," the second sentence of the Editorial Note on p. 519 should read: "Recent reports have shown that penicillinase-producing N. gonorrhoeae can cause gonococcal ophthalmia despite prophylaxis with silver nitrate (1)." No cases of penicillinase-producing N. gonorrhoeae (PPNG) ophthalmia have been reported with erythromycin prophylaxis. The PPNG-ophthalmia neonatorum cases have occurred with either silver nitrate or no prophylaxis.

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The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: ATTN: Editor, Morbidity and Mortality Weekly Report, Centers for Disease Control, Atlanta, Georgia 30333.

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